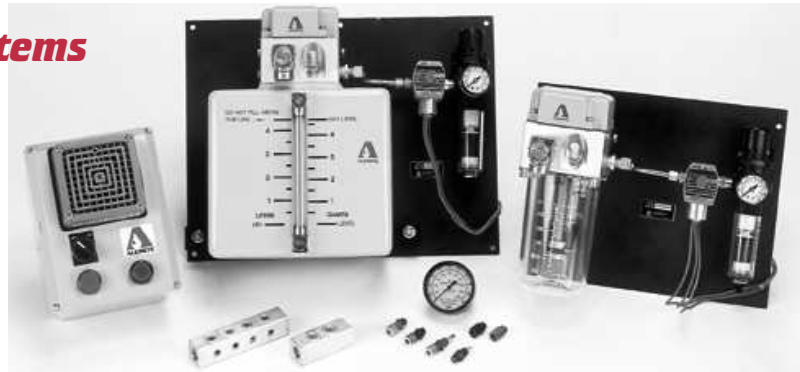




## Section 5 Automatic Lubrication

### Oil Mist Lubrication Systems

#### Pint/Gallon Oil Mist Lubricator Models



Model #	Reservoir Capacity Nominal	Flow Range	Level Switch	Oil Heater	Air Solenoid Valve	Air Filter-Regulator	Weight
3922-A*	1 pint/ 0.4 liter	0.3 to 1.4 scfm	Optional	na	Optional	Optional	5 lb/2.3 kg
3922-AC	1 pint/ 0.4 liter	0.3 to 1.4 scfm	Optional	na	120 VAC	Yes	10 lb/4.5 kg
3922-AD	1 pint/ 0.4 liter	0.3 to 1.4 scfm	Optional	na	220 VAC	Yes	10 lb/4.5 kg
3922-B*	1 pint/ 0.4 liter	0.3 to 1.4 scfm	Yes	na	Optional	Optional	5 lb/2.3 kg
3922-BC	1 pint/ 0.4 liter	0.3 to 1.4 scfm	Yes	na	120 VAC	Yes	10 lb/4.5 kg
3922-BD	1 pint/ 0.4 liter	0.3 to 1.4 scfm	Yes	na	220 VAC	Yes	10 lb/4.5 kg
3942-BC	1 gallon/ 4 liter	0.3 to 1.4 scfm	Yes	Optional	120 VAC	Yes	20 lb/9.1 kg
3942-BD	1 gallon/ 4 liter	0.3 to 1.4 scfm	Yes	Optional	220 VAC	Yes	20 lb/9.1 kg
3942-CC	1 gallon/ 4 liter	0.3 to 1.4 scfm	Yes	120 VAC	120 VAC	Yes	21 lb/9.5 kg
3942-DD	1 gallon/ 4 liter	0.3 to 1.4 scfm	Yes	220 VAC	220 VAC	Yes	21 lb/9.5 kg
3943-BC	1 gallon/ 4 liter	0.8 to 3.1 scfm	Yes	Optional	120 VAC	Yes	20 lb/9.1 kg
3943-BD	1 gallon/ 4 liter	0.8 to 3.1 scfm	Yes	Optional	220 VAC	Yes	20 lb/9.1 kg
3943-CC	1 gallon/ 4 liter	0.8 to 3.1 scfm	Yes	120 VAC	120 VAC	Yes	21 lb/9.5 kg
3943-DD	1 gallon/ 4 liter	0.8 to 3.1 scfm	Yes	220 VAC	220 VAC	Yes	21 lb/9.5 kg

\*Does not include mounting plate.

All units feature pressure relief valve and loader fitting. Interchangeable nozzles allow changing flow range in the field. Bare pint units available for OEM applications. Modular design allows easy addition of options at a later date. Five micron air filter element ensures only clean air reaches the lube points. Stainless steel suction strainer provides large surface area for long service life.

Pint units are normally for indoor installations only. Maximum oil viscosity — ISO 100 (100cSt @ 40°C), 500 SUS @ 100°F.

## Section 5 Automatic Lubrication



### Accessories for Pint/Gallon Oil Mist Lubricators

Mounting Bracket 387344	Provides convenient method to mount bare pint units (3922-A, 3922-B).
Air Filter-Regulator 387335	Removes water and particulates from incoming air supply, controls system pressure, 5 micron element, automatic drain, 1/4" (f)NPT ports Max inlet pressure - 150 psi (10 bar) Max outlet pressure - 60 psi (4 bar)
Air Solenoid Valve 387449-1 (120 VAC) 387449 (220 VAC)	Shuts off air supply when machinery is not running 1/4" (f)NPT ports, 1/2" (f)NPT conduit connection. 16 VA holding current, 30 VA inrush current.
Oil Heater 387323 (120 VAC) 387323-A (220 VAC)	Maintains oil at 100°F (38°C), 100 Watt Recommended for outdoor installations or when ambient temperature may drop below 70° F (21°C).
Level Switch 387296 (pint) 387297 (gallon)	Provides contact closure on low oil level. Can provide contact opening by inverting float. Max current rating 20VA, 120/220 VAC

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### Medium Output Oil Mist Generators

Available in two modular reservoir sizes: 5 quart and 3 gallon.  
Mist flow range: 0.9 to 16.5 cfm — (25.5 to 467 lm)

These versatile Oil Mist units permit the user maximum flexibility of component selection. They provide a compact modular designed package that contains all the components required to provide efficient system performance.

#### **The generator consists of two basic components:**

- (1) Oil Reservoir - available in two usable reservoir capacities:
  - 290 cubic inch (4,750 cc)
  - 760 cubic inch (12,440 cc)
- (2) Mist Generating Head - available in three rated cfm delivery capacities:
  - 2.3 cfm
  - 4.3 cfm
  - 9.7 cfm

The basic components can be selected and assembled in any combination of capacities.





## Section 5 Automatic Lubrication

### Generator Models

<b>Generator 115VAC</b>	<b>Generator 230VAC</b>	<b>Mist Generating Head (Rated Air Flow)</b>	<b>Oil Reservoir Size</b>	<b>Oil Reservoir Number</b>
3705-B	3705-E	2.3 cfm	5 quart	383802-B4
3705-C	3705-F	2.3 cfm	3 gallon	383802-C4
3706-B	3706-E	4.3 cfm	5 quart	383802-B4
3706-C	3706-F	4.3 cfm	3 gallon	383802-C4
3707-B	3707-E	9.7 cfm	5 quart	383802-B4
3707-C	3707-F	9.7 cfm	3 gallon	383802-C4

These models include oil heater kit 383807 and low level switch 385810. They will properly lubricate any system where the total cfm used by the system elements is within the mist flow range of cfm delivered by the unit.

### Optional Thermo-Aire Heater Kit

This unit is used to heat the incoming air for the misting of high viscosity oils which do not mist at ambient temperatures. It may also be used to increase and stabilize the oil/air ratio of all oils under varying ambient conditions. The heater is controlled by an adjustable thermostat to regulate air temperature up to 200°F. The heater also contains a low-temperature switch, monitors the air temperature at the heater outlet and can be used to energize an alarm. Air inlet is 3/8" NPT(m).

Part Number: 383808-A4 115 VAC, 60/50 Hz (Wattage - 600)

Part Number: 383808-B4 230 VAC, 60/50 Hz (Wattage - 600)

### Heavy Duty Oil Mist Generators

Usable reservoir capacity: 3.6 gallons - 840 cubic inches (13,750cc)

Mist flow range: 1.3 to 65 cfm - (37 to 1,840 l/m)

These completely enclosed, self-contained units require only air and electric power for operation. They include all the automatic controls necessary to check:

- air pressure
- mist pressure
- reservoir oil temperature
- oil level
- system operation

They may be used to synchronize lubrication with machine operation. They are efficient for all applications, including extended installations up to several hundred feet from the unit.

The units are available with mist generating heads\* in seven rated capacities: 2.3, 4.3, 9.7, 13, 21, 41 and 65 cfm. They will properly lubricate any system where the total cfm used by the system elements is within the mist flow range of cfm delivered by the unit.

Air inlet is 1/2" NPTF(m); mist outlet is 2-1/2" NPTF(f). Oil fill port with stainless steel filter screen is 1" NPTF(f). Reservoir drain outlet is 2" NPTF(f). The 3736 units have 3" NPTF(f) outlet.

\*Heads are dimensionally interchangeable.

Oil reservoir is equipped with access plate to reservoir interior and with fill and vent connection ports.

## Section 5 Automatic Lubrication



### Heavy Duty Oil Mist Units

Generator Model Number	New Model Replacement	Air Consumption Minimum	Air Consumption (cfm) Rated	Air Consumption Maximum	Includes Oil Heater 60/50 Hz	Includes Air Solenoid 60/50 Hz
3720-A6	—	5.2	13	21	115V	115V
3720-B6	—	5.2	13	21	230V	230V
3721-A6	3876-CC	7.5	21	33	115V	115V
3721-B6	3876-DD	7.5	21	33	230V	230V
3722-A6	3877-CC	15	41	45	115V	115V
3722-B6	3877-DD	15	41	45	230V	230V
3723-A6	3873-CC	1.3	2.3	3.7	115V	115V
3723-B6	3873-DD	1.3	2.3	3.7	115V	115V
3724-A6	3874-CC	1.6	4.3	7.0	115V	115V
3725-A6	3875-CC	3.5	9.7	14	115V	115V
3726-RW6	3878-CC	31	65	73	115V	115V
3726-BW6	3878-DD	31	65	73	230V	230V

### Thermo-Aire Heavy Duty Oil Mist Generators

Usable reservoir capacity: 3.6 gallons - 840 cubic inches (13,750 cc) Mist flow range: 4.5 to 65 cfm (127 to 1,840 l/m).

These Oil Mist generators include the same automatic controls as the Heavy Duty 3720 series. In addition, they also include an external air heater which preheats the incoming air entering the mist generator nozzle. The air heater is used when misting heavy oils that range in viscosities from 1000 to 6000 SSU @ 100°F. It may also be used to increase or stabilize the oil/air ratio of any oil. The heater is controlled by an adjustable thermostat set at 150°F which regulates the air temperature. An adjustable low air-temperature switch preset at 115°F monitors the air temperature at the heater outlet and may be used to energize an alarm.

The units are available with mist generating heads in four rated capacities: 13, 21, 41 and 65 cfm. They will properly lubricate any system where the total cfm used by the system elements is within the mist flow range of cfm delivered by the unit.

Air inlet is 1/2" NPTF(m); mist outlet is 2-1/2" NPTF(f). The 3736 units have 3" NPTF(f) outlet.

Oil fill port with stainless steel filter screen is 1" NPTF(f). Reservoir drain outlet is 2" NPTF(f).

Oil reservoir is equipped with access plate to reservoir interior and with fill and vent connection ports.

### Thermo-Aire Oil Mist Units

Generator Model Number	New Model Replacement	Air Consumption Minimum	Air Consumption (cfm) Rated	Air Consumption Maximum	Includes Oil Heater 60/50 Hz	Includes Air Solenoid 60/50 Hz	Air Heater 60/50 Hz
3730-RW6	—	4.5	13	19	115V	115V	230V
3730-BW6	—	4.5	13	19	230V	230V	230V
3731-RW6	3876-CE	6	21	30	115V	115V	230V
3731-BW6	3876-DG	6	21	30	230V	230V	230V
3732-RW6	3877-CE	12	37	40	115V	115V	230V
3732-BW6	3877-DG	12	37	40	230V	230V	230V
3736-RW6	3878-CE	31	65	73	115V	115V	230V
3736-BW6	3876-DG	31	65	73	230V	230V	230V